

**THE US ARMY SIGNAL SCHOOL
APPRENTICESHIP PROGRAM
FOR THE TRADE OF
TELEVISION-CABLE INSTALLER**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
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1. Purpose. The purpose of this pamphlet is to announce the US Army Signal School Apprenticeship program for the trade of Television-Cable Installer (DOT Code 821.281-010).

2. General. Policies and procedures for participation in the program are contained in AR 621-41. This pamphlet is designed to be used in conjunction with that regulation.

3. Apprenticeship Program Number and Occupational Skill Code. *a.* The following apprenticeship program number and occupational skill code are used to identify the US Army Signal School apprenticeship program for the trade of Television-Cable Installer.

(1) Apprenticeship Program Number: 99904.

(2) Occupational Skill Code: 23.

b. The apprenticeship program number and occupational skill code must be entered in items 3 and 4 of DA Form 4409-R (Apprenticeship Application Form) to identify the program for which the soldier is making application.

4. Eligibility for Participation in the Program. Soldiers holding as primary or secondary one of the MOSs indicated below and serving in that MOS may participate in the program.

a. MOS 26T: Radio/Television Systems Specialist.

b. MOS 36C: Telephone Installer and Lineman.

c. MOS 36D: Antennaman.

d. MOS 36K: Tactical Wire Operations Specialist.

5. The Television-Cable Installer Apprenticeship Program. This is a 2,000 hour program which leads to certification as journeyman in the trade of Television-Cable Installer. Participation in the program is voluntary, and no membership in labor unions or professional associations is required. The work process schedule and schedule of related instruction for the trade are attached (apps A and B). The purposes of the work process schedule and the schedule of related instruction are as indicated below:

a. The work process schedule reflects categories of work experience required by soldier-apprentices to qualify as journeyman and hours of work experience required in each category.

b. The schedule of related instruction identifies courses which may be taken by soldier-apprentices to satisfy the 144 hours of related instruction required for completion of the program.

6. Enrollment in the Program. Soldiers may enroll in the program by contacting their installation education services officers (ESOs) who will explain requirements of the program and assist in the preparation of the apprenticeship application form (DA Form 4409-R).

7. Apprentice Log Forms. Apprentice log forms and instructions on use of forms will be issued to soldiers by installation ESOs at the time of registration in the program. Soldier-apprentices will be required to annotate their work experience on log sheets on a daily basis. Log and instruction sheets will be maintained by soldiers in a three ring binder. Log entries must be verified by the soldier-apprentice's immediate supervisor on a weekly basis.

8. Credit for Previous Experience. *a.* Newly enrolled soldier-apprentices who have partially completed an approved Federal or State registered civilian apprenticeship in the trade of Television-Cable Installer or a related trade will, upon presentation of documentation, be awarded credit for all experience related to categories of work contained in the work process schedule at appendix A.

b. Up to 1,000 hours of credit for previous military work experience may be awarded upon presentation of authenticated documentation of satisfactory performance. Such experience must be directly related to the occupation in which the apprenticeship is being performed. Statements from previous supervisors or other such documentation which certify category of work, number of hours by category, and quality of performance will be submitted by soldier-apprentices to their installation ESOs for consideration. ESOs will forward these documents to the Commander, US Army Signal Center and Fort Gordon, ATTN: ATZHPA-P-E, Fort Gordon, GA 30905, for final determination.

9. Related Instruction Credit for Previous Military and Civilian Education. Credit for previous military and civilian education may be awarded to satisfy related instruction requirements by presenting certificates of course completion or other such documentation from official military records or other sources. The installation ESO will determine the amount of credit to be awarded. The ESO will consult appropriate service schools, as required, in order to determine the appropriate amount of credit for each course.

10. Completion of the Program. Upon successful completion of the program, a Certificate of Completion of Apprenticeship will be awarded by the US Department of Labor. While the award of a Certificate of Completion of Apprenticeship will not guarantee a job, it will certify that journeyman status has been attained, and should enable completers of the program to be more competitive with civilians in the trade.

11. Partial Completers. Soldiers leaving the service prior to completion of the program will receive documented credit for that portion of the program which they did complete. This documentation may be presented for satisfaction of requirements of civilian apprenticeship programs in the trade of Television-Cable Installer or a related trade.

APPENDIX A

WORK PROCESS SCHEDULE FOR THE TRADE OF

TELEVISION-CABLE INSTALLER

(DOT CODE 821.281-010)

<i>Work Processes</i>	<i>Approximate Hours</i>
A. Acquire insight into the use of different kinds and sizes of materials and supplies used in CATV installation procedures	50
Direction of signal feed on the lines. Use of Tools.	
B. Utilize test equipment and maintain meters, such as field strength meters	50
C. Identify main and intermediate distribution lines	50
D. Ascertain line clearances, allowances on joint poles, in the spans, and climbing space allowed	50
E. Develop procedures for handling detailed plans, maps, cable records, job and work orders	150
F. Handle drop wire run from pole, with brackets, sag tightness, house attachments, climbing poles	400
G. Perform drop wire runs on buildings, plan new run, use existing run, turn corners, cross obstructions, last attachment and entrance	400
H. Perform block wire runs from pole to building, along the building, spacing bridle rings, drilling, crossing rain spouts, and electric wires	400
I. Execute underground service connections, size and type of cable pulling in, terminating. Develop ability to recognize all types of underground utility services	200
J. Climb poles; work safely (four hours ground instruction first)—must recognize primary and secondary power lines .	100
K. Discontinuance of service. Method of disconnection and position of wires left. Termination of cable	50
L. Exercise necessary precautions regarding permits authorizing work on private property	50
M. Connect cable to receiver in customer's dwelling.	50
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TOTAL	2,000

APPENDIX B

**SCHEDULE OF RELATED INSTRUCTION FOR THE TRADE OF
TELEVISION-CABLE INSTALLER
(DOT CODE 821.281-010)**

A total of 144 hours of related instruction is required to complete this program. Completion of any one or a combination of the below listed courses which equals 144 hours of related instruction or more may be taken to satisfy this requirement. Credit for courses not listed below may be awarded upon presentation of authenticated documentation of satisfactory completion. A synopsis of the course must be submitted with documentation. Documentation and synopsis for courses not listed below will be forwarded by ESOs to the Commander, US Army Signal Center and Fort Gordon, ATTN: ATZHPA-P-E, Fort Gordon, GA, 30905, for final determination.

<i>Course¹ Number</i>	<i>Course² Title</i>	<i>School³</i>	<i>Resident⁴</i>	<i>Nonresident⁵</i>	<i>Hours Credit</i>
A. 621-36D20	Antennaman	Sheppard AFB, TX	X		300
B. 621-36E20	Cable Splicer	Sheppard AFB, TX	X		520
C. 621-36C20	Telephone Installer and Lineman	USASIGS	X		315
D. 101-F10	Circuit Conditioning	USASIGS	X		260
E. SSO 301	Electrical Fundamentals—DC	USASIGS		X	12
F. SSO 302	Magnetism and Electro- magnetism	USASIGS		X	10
G. SSO 303	Electrical Fundamentals—AC	USASIGS		X	9
H. SSO 304	Electrical Networks	USASIGS		X	11
I. SSO 309	Introduction to Electronics	USASIGS		X	10
J. SSO 361	Television Fundamentals	USASIGS		X	9
K. SSO 364	Television Transmission	USASIGS		X	13
L. SSO 430	Field Wire and Field Cable Lines—Construction and Maintenance	USASIGS		X	20
M. SSO 432	Pole Line Construction and Maintenance	USASIGS		X	13
N. SSO 433	Open-wire Construction and Maintenance	USASIGS		X	13
O. SSO 434	Aerial Cable Construction and Maintenance	USASIGS		X	18
P. SSO 435	Underground, Buried, and Building Cable Construction	USASIGS		X	8
Q. SSO 436	Outside Plant Construction Records	USASIGS		X	8
R. SSO 437	Testing Wire Lines and Locating Faults	USASIGS		X	11
S. SSO 462	Basic Test Equipment— Operation	USASIGS		X	9
T. SSO 650	Safety and Preventive Maintenance	USASIGS		X	3

<i>Course¹ Number¹</i>	<i>Course² Title</i>	<i>School³</i>	<i>Resident⁴ Nonresident⁵</i>	<i>Hours Credit</i>
U. SSO 651	Shop Practices and Safety	USASIGS	X	3
V. SSO 098	Metric System of Linear Measure	USASIGS	X	1
W. SSO 099	Basic Mathematics	USASIGS	X	3
X. SSO 100	Algebra	USASIGS	X	3
Y. *ENGR 114	Rigging	USAES	X	10

*Obtained from: Commandant
US Army Engineer School
ATTN: Dept. of Army - Wide TNG Spt
Fort Belvoir, VA 22060

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1. Indicate course number if course is offered by an Army Service School.
 2. Indicate course title, regardless of source of course, i.e., service school, vocational/technical, etc.
 3. Indicate name of service school teaching course. If course taught by public school, indicate type of school, i.e., college, vocational/technical, trade school, etc.
 - 4&5. Indicate whether course is resident or non resident by placing X under proper category.
 6. For service school courses, indicate actual numbers of hours of instruction included in POI. For non-service school courses, indicated "actual classroom hours," and that these hours must be verified by institution offering course.

The proponent agency of this pamphlet is The Adjutant General Center. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to the Commander, US Army Signal Center and Fort Gordon, ATTN: ATZHPA-P-E, Fort Gordon, GA 30905.

By Order of the Secretary of the Army:

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General, United States Army
Chief of Staff

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J. C. PENNINGTON
Major General, United States Army
The Adjutant General

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